PTO/SB/21 (09-04) (AW 10/2004)

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**TRANSMITTAL FORM** 

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 50

| Application Number   | 10/727,929             |  |
|----------------------|------------------------|--|
| Filing Date          | December 3, 2003       |  |
| First Named Inventor | Wen-Bin Yan            |  |
| Art Unit             | 2877                   |  |
| Examiner Name        | Richard A. Rosenberger |  |
| Attorney Docket No.  | TGR-105US              |  |

| ENCLOSURES (Check all that apply)   |  |  |        |  |                  |      |                                     |
|---|--|--|--------|--|------------------|------|-------------------------------------|
|   | nsmittal Fo                              |  |        | Drawing(s) Licensing-relate  | d Papers         |      | After Allowance Communication to TC |
| Amendment/Reply After Final Affidavits/Declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Response to Missing Parts/ Incomplete Application  |  | Petition  Petition to Convert to a Provisional Application  Power of Attorney, Revocation, Change of Correspondence Address  Terminal Disclaimer  Request for Refund  CD, Number of CD(s)  Landscape Table on CD |        | Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  Proprietary Information  Status Letter  Other Enclosure(s) (please identify below):  Return Postcard International Search Report  3 References |                  |      |                                     |
|   |  | Missing Parts<br>R 1.52 or 1.53  | Rema   | arks:  |                  |      |                                     |
|   |  | SIGNATUR   | E OF A | PPLICANT, AT   | TORNEY OR A      | GENT |                                     |
| Firm Name Signature Printed Name  | RatnerP                                  | restia L. Etkowicz   | 1      | M  |                  |      |                                     |
| Date  | June 24                                  |  |        |  | Registration No. | 41,  | 738                                 |
| CERTIFICATE OF TRANSMISSION / MAILING   |  |  |        |  |                  |      |                                     |
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: |  |  |        |  |                  |      |                                     |
| Signature   |  | Rathleen &   | Ca.    | essey.   |                  |      |                                     |
| Typed or Printed  | Typed or Printed Name Kathleen P. Carney |  |        |  |                  | Date | June 24, 2005                       |
|   |  |  |        |  |                  |      |                                     |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

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TGR-105US



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No:

10/727,929

Applicant:

Wen-Bin Yan

Filed:

December 3, 2003

Title:

DEVICE AND METHOD OF TRACE GAS ANALYSIS USING CAVITY RING-

DOWN SPECTROSCOPY

TC/A.U.:

2877

Examiner:

Richard A. Rosenberger

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (RP) submitted herewith. A copy of the references listed on the 1449 form, other than U.S. patents, is enclosed.

Reference U.S. Patent 5,528,040 to Lehmann is not included in this IDS as it was cited on the IDS filed March 12, 2004.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

TGR-105US PATENT

This Information Disclosure Statement is being filed before mailing of the first Official Action. No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or statement is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

RatnerPrestia

Jacques L. Etkowicz, Reg. No. 41,738 Actorney for Applicant

JLE/kpc

Enclosures: PTO Form 1449 (2)

(3) References Search Report Transmittal Form

Dated: June 24, 2005

P. O. Box 980 Valley Forge, PA 19482 (610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. **18-0350** of any fees associated with this communication.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

June 24, 2005

Kathleen P. Carney

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SHEET 1 of 2

Substitute for Form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

| Complete if Known    |                        |   |  |  |
|----------------------|------------------------|---|--|--|
| Application Number   | 10/727,929             | , |  |  |
| Filing Date          | December 3, 2003       |   |  |  |
| First Named Inventor | Wen-Bin Yan            |   |  |  |
| Art Unit             | 2877                   |   |  |  |
| Examiner Name        | Richard A. Rosenberger |   |  |  |
| Attorney Docket No.  | TGR-105US              |   |  |  |

Considered

| U.S. PATENT DOCUMENTS |              |   |  |  |   |  |
|-----------------------|--------------|---|--|--|---|--|
| Examiner<br>Initials* | Cite<br>No.1 | Document Number  Number - Kind Code <sup>2 (if known)</sup> | Issue/<br>Publication Date<br>(MM-DD-YYYY) | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |  |
|                       |              | US-2001/0003482 A1  | 06/14/2001                                 | Zare et al.  |   |  |
|                       |              | US-6,452,680 B1   | 09/17/2002                                 | Paldus et al.                                      |   |  |
|                       |              | US-2003/0210398 A1  | 11/13/2003                                 | Augustine et al.                                   |   |  |
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| FOREIGN PATENT DOCUMENTS     |      |                            |                  |   |  |    |
|------------------------------|------|----------------------------|------------------|---|--|----|
| Examiner Cite Initials* No.1 | Cite | Foreign Patent Document    | Publication Date | Name of Patentee or<br>Applicant of Cited<br>Document | Pages, Columns,<br>Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |    |
|                              |      | 1 C . C . 3 4 (If known) 1 | (MM-DD-YYYY)     |   |  | T6 |
|                              |      | EP 0 329 061 A2            | 08/23/1989       | Sapp et al.   |  |    |
|                              |      | EP 1 116 948 A1            | 07/18/2001       | Zare et al.   |  |    |
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Signature

Applicant's unique citation designation number (optional).
See Kind Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04.

<sup>&</sup>lt;sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>&</sup>lt;sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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Substitute for Form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 2 of 2

| Complete if Known    |                        |  |  |
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| Filing Date          | December 3, 2003       |  |  |
| First Named Inventor | Wen-Bin Yan            |  |  |
| Art Unit             | 2877                   |  |  |
| Examiner Name        | Richard A. Rosenberger |  |  |
| Attorney Docket No.  | TGR-105US              |  |  |

|                       |              | NON-PATENT LITERATURE DOCUMENTS   |                    |               |                |
|-----------------------|--------------|---|--------------------|---------------|----------------|
| Examiner<br>Initials* | Cite<br>No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (wher magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-country where published |                    |               | T <sup>2</sup> |
|                       |              | PALDUS ET AL., Cavity-locked ring-down spectroscopy, Journal of A<br>Number 8, April 15, 1998, pp. 3991-3997  | applied Physics    | s, Volume 83, |                |
|                       |              | International Search Report for PCT International Application No. PC 05/25/2005   | CT/US2004/04       | 10215, mailed |                |
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| Examiner<br>Signature |              |   | Date<br>Considered |               |                |

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional).

¹Applicant's unique citation designation number (optional).
²Applicant is to place a check mark here if English language translation is attached.

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